Read File “hurricanedata.txt”

ArrayList hurricanes

For each line in file:

Add hurricane object to hurricanes with given parameters

For each hurricane in hurricanes:

Hurricane.knotsToMPH()

Hurricane.calcCategory()

Print “Enter starting year: “

yearStart = user inputted integer

Print “Enter ending year: “

yearEnd = user inputted integer

indexStart = 0

found = false

while not found:

if hurricanes[indexStart].year >= yearStart:

found = true

else

indexStart++

if indexStart >= hurricanes.size:

break

if found = false:

Print error

Return

indexEnd = hurricanes.size – 1

found = false

while not found:

if hurricanes[indexEnd].year <= yearEnd:

found = true;

else:

indexEnd--;

if indexEnd < 0:

break

if found = false:

Print error

Return

If indexStart > indexEnd:

Print error

Return

totalCount = indexEnd – indexStart + 1

totalCategory = 0

totalWindSpeed = 0

totalPressure = 0

maxCategory = -infinity

maxWindSpeed = -infinity

maxPressure = -infinity

minCategory = infinity

minWindSpeed = infinity

minPressure = infinity

categoryCounts = {0, 0, 0, 0, 0};

for each hurricane from indexStart to indexEnd:

totalCategory += hurricane.category

totalPressure += hurricane.pressure

totalWindSpeed += hurricane.windSpeed

maxCategory = max(maxCategory, hurricane.category)

maxPressure = max(maxPressure, hurricane.pressure)

maxWindSpeed = max(maxWindSpeed, hurricane.windSpeed)

minCategory = min(minCategory, hurricane.category)

minPressure = min(minPressure, hurricane.pressure)

minWindSpeed = min(minWindSpeed, hurricane.windSpeed)

categoryCounts[hurricane.category – 1]++

avgCategory = totalCategory / totalCount

avgPressure = totalPressure / totalCount

avgWindSpeed = totalWindSpeed / totalCount

Print summary table

Create file “summary.txt”

Write summary of categories in file

Close file